

CLAIMS

What is claimed is:

- 1 1. A multiplexer comprising:
2 a first input;
3 a first channel coupled to the first input;
4 a second input;
5 a second channel coupled to the second input;
6 an output coupled to the first and second channels, wherein a coupling
7 capacitance of an inactive one of the first and second channels is not coupled directly to the
8 output.
- 1 2. The multiplexer of claim 1 wherein the first channel comprises:
2 a first input differential amplifier (DAF) coupled to the first input; and
3 a first plurality of transistors coupled between the first DAF and the output.
- 1 3. The multiplexer of claim 2 wherein the second channel comprises:
2 a second input differential amplifier (DAF) coupled to the second input; and
3 a second plurality of transistors coupled between the second DAF and the
4 output.
- 1 4. The multiplexer of claim 1 which includes a non-inverted select input for
2 activating the first channel and inactivating the second channel and an inverted input for

3 inactivating the first channel and activating the second channel.

1 5. The multiplexer of claim 3 wherein the first plurality of transistors are turned
2 off when the first channel is inactive.

1 6. The multiplexer of claim 5 wherein the second plurality of transistors are turned
2 off when the second channel is inactive.